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**Isaac Z. Pesenson\*** (pesenson@temple.edu). *Sampling formulas for one-parameter groups of operators in Banach spaces.*

Some results about sampling of entire functions of exponential type extended to one-parameter groups of isometries acting in Banach spaces. By using generator  $D$  of one-parameter group  $e^{tD}$  of isometries of a Banach space  $E$  we introduce Bernstein subspaces  $\mathbf{B}_\sigma(D)$ ,  $\sigma > 0$ , of vectors  $f$  in  $E$  for which trajectories  $e^{tD}f$  are abstract-valued functions of exponential type which are bounded on the real line. This property allows to reduce sampling problems for  $e^{tD}f$  with  $f \in \mathbf{B}_\sigma(D)$  to known sampling results for regular functions of exponential type  $\sigma$ . (Received January 19, 2014)